

1. Record Nr.	UNISA996465788103316
Titolo	Algorithm Engineering [[electronic resource]] : 5th International Workshop, WAE 2001 Aarhus, Denmark, August 28-31, 2001 Proceedings / / edited by Gerd Stoelting Brodal, Daniele Frigioni, Alberto Marchetti-Spaccamela
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2001
ISBN	3-540-44688-5
Edizione	[1st ed. 2001.]
Descrizione fisica	1 online resource (X, 202 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2141
Disciplina	005.1
Soggetti	Computers Computer programming Data structures (Computer science) Algorithms Computer science—Mathematics Theory of Computation Programming Techniques Data Structures and Information Theory Algorithm Analysis and Problem Complexity Discrete Mathematics in Computer Science Data Structures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Compact DFA Representation for Fast Regular Expression Search -- The Max-Shift Algorithm for Approximate String Matching -- Fractal Matrix Multiplication: A Case Study on Portability of Cache Performance -- Experiences with the Design and Implementation of Space-Efficient Deques -- Designing and Implementing a General Purpose Halfedge Data Structure -- Optimised Predecessor Data Structures for Internal Memory -- An Adaptable and Extensible Geometry Kernel -- Efficient Resource Allocation with Noisy Functions -- Improving the Efficiency of Branch and Bound Algorithms for the Simple Plant Location Problem --

Exploiting Partial Knowledge of Satisfying Assignments -- Using PRAM Algorithms on a Uniform-Memory-Access Shared-Memory Architecture -- An Experimental Study of Data Migration Algorithms -- An Experimental Study of Basic Communication Protocols in Ad-hoc Mobile Networks -- Experimental Analysis of Algorithms for Bilateral-Contract Clearing Mechanisms Arising in Deregulated Power Industry -- Pareto Shortest Paths is Often Feasible in Practice.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th Workshop on Algorithm Engineering, WAE 2001, held in Aarhus, Denmark, in August 2001. The 15 revised full papers presented were carefully reviewed and selected from 25 submissions. Among the topics addressed are implementation, experimental testing, and fine-tuning of discrete algorithms; novel use of discrete algorithms in other disciplines; empirical research on algorithms and data structures; and methodological issues regarding the process of converting user requirements into efficient algorithmic solutions and implemenations.

2. Record Nr.

UNINA9910143610003321

Titolo

Discrete Geometry for Computer Imagery : 9th International Conference, DGCI 2000 Uppsala, Sweden, December 13-15, 2000 Proceedings // edited by Gunilla Borgefors, Ingela Nyström, Gabriella Sanniti di Baja

Pubbl/distr/stampa

Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2000

ISBN

3-540-44438-6

Edizione

[1st ed. 2000.]

Descrizione fisica

1 online resource (XII, 548 p.)

Collana

Lecture Notes in Computer Science, , 0302-9743 ; ; 1953

Disciplina

006.6/01/516

Soggetti

Application software
Computer graphics
Optical data processing
Natural language processing (Computer science)
Algorithms
Computer science—Mathematics
Computer Applications
Computer Graphics
Image Processing and Computer Vision
Natural Language Processing (NLP)
Algorithm Analysis and Problem Complexity
Discrete Mathematics in Computer Science

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	<p>Topology -- Homotopy in Digital Spaces -- Tesselations by Connection in Orders -- A Concise Characterization of 3D Simple Points -- Digital n-Pseudomanifold and n-Weakmanifold in a Binary $(n + 1)$-Digital Image -- Digital Jordan Curve Theorems -- A New Means for Investigating 3-Manifolds -- Nearness in Digital Images and Proximity Spaces -- Morphological Operators with Discrete Line Segments -- Hausdorff Discretizations of Algebraic Sets and Diophantine Sets -- Discrete Images -- An Algorithm for Reconstructing Special Lattice Sets from Their Approximate X-Rays -- A Question of Digital Linear Algebra -- Reconstruction of Discrete Sets with Absorption -- Some Properties of Hyperbolic Networks -- The Reconstruction of the Digital Hyperbola Segment from Its Code -- Determining Visible Points in a Three-Dimensional Discrete Space -- Surfaces and Volumes -- Extended Reeb Graphs for Surface Understanding and Description -- Euclidean Nets: An Automatic and Reversible Geometric Smoothing of Discrete 3D Object Boundaries -- Object Discretization in Higher Dimensions -- Strong Thinning and Polyhedrization of the Surface of a Voxel Object -- Deformable Modeling for Characterizing Biomedical Shape Changes -- Naive Planes as Discrete Combinatorial Surfaces -- Surface Digitizations by Dilations Which Are Tunnel-Free -- Delaunay Surface Reconstruction from Scattered Points -- Go Digital, Go Fuzzy -- Recognition of Digital Naive Planes and Polyhedrization -- Shape Representation -- Topological Encoding of 3D Segmented Images -- Some Weighted Distance Transforms in Four Dimensions -- Representing 2D Digital Objects -- Plane Embedding of Dually Contracted Graphs -- A New Visibility Partition for Affine Pattern Matching -- Morphological Operations on 3D and 4D Images: From Shape Primitive Detection to Skeletonization -- Efficient Algorithms to Implement the Confinement Tree -- A 3D 3-Subiteration Thinning Algorithm for Medial Surfaces -- Computing 3D Medial Axis for Chamfer Distances -- Multiresolution Modelling of Polygonal Surface Meshes Using Triangle Fans -- Detecting Centres of Maximal Geodesic Discs on the Distance Transform of Surfaces in 3D Images -- The Envelope of a Digital Curve Based on Dominant Points -- Shape Representation -- Minimum-Length Polygons in Simple Cube-Curves -- Planar Object Detection under Scaled Orthographic Projection -- Detection of the Discrete Convexity of Polyominoes -- An Efficient Shape-Based Approach to Image Retrieval -- Towards Feature Fusion - The Synthesis of Contour Sections Distinguishing Contours from Different Classes -- Parallel Line Grouping Based on Interval Graphs.</p>
Sommario/riassunto	<p>This book constitutes the refereed proceedings of the 9th International Conference on Discrete Geometry for Computer Imagery, DGCI 2000, held in Uppsala, Sweden in December 2000. The 40 revised papers presented together with two invited papers were carefully reviewed and selected from 62 submissions. The papers are organized in topical sections on topology, discrete images, surfaces and volumes, shape representation, and shape understanding.</p>